

### ABSTRACT

Sound data output and manipulation with haptic feedback. Haptic sensations are associated with sound data to assist in navigating through and editing the sound data. The sound data is loaded into computer memory and played such that sound is output from an audio device. The sound playing is controlled by user input for navigation through the sound data. Haptic commands are generated based on the sound data and are used to output haptic sensations to the user by a haptic feedback device manipulated by the user. The haptic sensations correspond to one or more characteristics of the sound data to assist the user in discerning features of the sound data during the navigation through and editing of the sound data.

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